

USSN 09/855,403

Amendment responsive to Office Action mailed on August 18, 2006

September 19, 2006

A-1669

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) An aerosol enhancement device, comprising:
  - a mouthpiece;
  - a spacer member fluidly attached to said mouthpiece through a mouthpiece port, said spacer member having interior walls which define an interior volume, said interior volume comprising a mixing chamber;
  - an inlet port disposed in said spacer member for receiving a medicated aerosol from an exterior source into said mixing chamber; and
  - an air inlet port disposed in said spacer member for receiving air into said air passage mixing chamber;
  - wherein ~~the mixing chamber is generally octagonal in configuration~~ said interior walls which define said interior volume comprise a plurality of generally planar wall segments and angled transition zones are disposed between adjacent ones of said wall segments; and
  - an adapter disposed in said inlet port for receiving a medicated aerosol, said adapter comprising a universal fitting which is capable of attaching said spacer member to either a nebulizer or a metered dose inhaler (MDI);
  - wherein said adapter is reversible, being disposable in a first orientation for attachment of said spacer member to a nebulizer, and being disposable in a second orientation for attachment of said spacer member to an MDI.
2. (Original) The aerosol enhancement device as recited in Claim 1, and further comprising an exhaust port in said mouthpiece.



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3. (Original) The aerosol enhancement device as recited in Claim 2, and further comprising a one-way valve in said exhaust port.

4. (Original) The aerosol enhancement device as recited in Claim 3, wherein said one-way valve comprises a flap valve.

5. (Original) The aerosol enhancement device as recited in Claim 2, and further comprising an exhalation filter in said exhaust port.

6. (Original) The aerosol enhancement device as recited in Claim 1, and further comprising a one-way valve disposed in said air inlet port.

7. (Canceled)

8. (Canceled)

9. (Previously Amended) The aerosol enhancement device as recited in Claim 1, wherein the inlet port for receiving a medicated aerosol and the air inlet port are interchangeable.

10. (Previously Amended) An aerosol enhancement device, comprising:  
a mouthpiece;

a spacer member fluidly attached to said mouthpiece via a mouthpiece port, said spacer member having an outer body which defines an interior volume;

an inlet port disposed in said spacer member for receiving a medicated aerosol from an exterior source into said interior volume; and

an adapter associated with said inlet port for receiving a medicated aerosol, said adapter comprising a universal fitting which is capable of attaching said spacer member to either a nebulizer or a metered dose inhaler (MDI);



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wherein said adapter is reversible, being disposable in a first orientation for attachment of said spacer member to a nebulizer, and being disposable in a second orientation for attachment of said spacer member to an MDI;

said adapter comprising a first rigid connector end and a second flexible connector end, said first rigid connector end being adapted for attachment to a nebulizer and said second flexible connector end being adapted for attachment to an MDI.

11. (Previously Canceled)

12. (Previously Canceled)

13. (Previously Amended) The aerosol enhancement device as recited in Claim 10, said adapter further comprising a flange portion for engaging said adapter with said spacer member.

14 - 22. (Canceled)

23. (Currently Amended) The aerosol enhancement device as recited in Claim 22 1, wherein said spacer member comprises eight of said wall segments, such that said mixing chamber is generally octagonal in configuration.

24-31. (Canceled)

32. (New) An aerosol enhancement device, comprising:  
a mouthpiece;

a spacer member fluidly attached to said mouthpiece through a mouthpiece port, said spacer member having interior walls which define an interior volume, said interior volume comprising a mixing chamber;

an inlet port disposed in said spacer member for receiving a medicated aerosol from an exterior source into said mixing chamber; and



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an air inlet port disposed in said spacer member for receiving air into said mixing chamber;

wherein said interior walls defining said interior volume comprise a plurality of generally planar wall segments and angled transition zones are disposed between adjacent ones of said wall segments; and

wherein the inlet port for receiving a medicated aerosol and the air inlet port are interchangeable.

33. (New) The aerosol enhancement device as recited in Claim 32, and further comprising an exhaust port in said mouthpiece.

34. (New) The aerosol enhancement device as recited in Claim 33, and further comprising a one-way valve in said exhaust port.

35. (New) The aerosol enhancement device as recited in Claim 34, wherein said one-way valve comprises a flap valve.

36. (New) The aerosol enhancement device as recited in Claim 33, and further comprising an exhalation filter in said exhaust port.

37. (New) The aerosol enhancement device as recited in Claim 32, and further comprising a one-way valve disposed in said air inlet port.

38. (New) The aerosol enhancement device as recited in Claim 32, and further comprising an adapter disposed in said inlet port for receiving a medicated aerosol, said adapter comprising a universal fitting which is capable of attaching said spacer member to either a nebulizer or a metered dose inhaler (MDI).



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39. (New) The aerosol enhancement device as recited in Claim 10, and further comprising an air inlet port disposed in said spacer member for receiving air into said air passage.

40. (New) The aerosol enhancement device as recited in Claim 10, and further comprising an exhaust port in said mouthpiece.

41. (New) The aerosol enhancement device as recited in Claim 40, and further comprising a one-way valve in said exhaust port.

42. (New) The aerosol enhancement device as recited in Claim 41, wherein said one-way valve comprises a flap valve.

43. (New) The aerosol enhancement device as recited in Claim 40, and further comprising an exhalation filter in said exhaust port.

44. (New) The aerosol enhancement device as recited in Claim 39, and further comprising a one-way valve disposed in said air inlet port.

45. (New) The aerosol enhancement device as recited in Claim 39, wherein the inlet port for receiving a medicated aerosol and the air inlet port are interchangeable.